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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171

7590

04/02/2010

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

| EXAMINER | | | | | |
|---------------------|--------------|--|--|--|--|
| PATEL, CHANDRAHAS B | | | | | |
| ART UNIT | PAPER NUMBER | | | | |

2464

DATE MAILED: 04/02/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/809.457 | 03/26/2004 | Johann Arnold | 2454.1096 | 7652 |

TITLE OF INVENTION: METHOD FOR TRANSMITTING REAL-TIME DATA MESSAGES IN A CYCLIC COMMUNICATIONS SYSTEM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 07/02/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

| appropriate. All further indicated unless correct maintenance fee notifica | ed below or directed otl | ng the Patent, advance on herwise in Block 1, by (| orders and notification of a) specifying a new corr | maintenance fees espondence addres | will be s; and/o | mailed to the current r (b) indicating a separ | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPOND | Fe pa | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | | | |
| 21171 | | 2/2010 | | Ce | rtificate | e of Mailing or Transr | nission |
| STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. | | | I I St ad tra | nereby certify that to ates Postal Service dressed to the Ma | his Fee(with suf il Stop | s) Transmittal is being fficient postage for first ISSUE FEE address (1) 273-2885, on the da | deposited with the United t class mail in an envelope above, or being facsimile |
| WASHINGTON | N, DC 20005 | | Γ | | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | PR | ATTC | DRNEY DOCKET NO. | CONFIRMATION NO. |
| 10/809,457 | 03/26/2004 | | Johann Arnold | | | 2454.1096 | 7652 |
| TITLE OF INVENTION | N: METHOD FOR TRAN | ISMITTING REAL-TIM | | _ | | CATIONS SYSTEM | |
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| nonprovisional | NO | \$1510 | \$300 | \$ 0 | | \$1810 | 07/02/2010 |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | ╛ | | | |
| PATEL, CHA | NDRAHAS B | 2464 | 370-493000 | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. | | " Indication form ned. Use of a Customer | registered attorney or agent) and the names of up to | | | | |
| PLEASE NOTE: Un | less an assignee is ident th in 37 CFR 3.11. Com | A TO BE PRINTED ON ified below, no assignee pletion of this form is NO | data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT | patent. If an assign assignment. 'Y and STATE OR | COUNT | TRY) | ocument has been filed for |
| Please check the appropr | riate assignee category or | categories (will not be p | rinted on the patent): | Individual 🔲 (| Corporat | ion or other private gro | up entity Government |
| 4a. The following fee(s) | are submitted: | 4 | b. Payment of Fee(s): (Pl | | ny pre | viously paid issue fee s | shown above) |
| Issue Fee | NT 11 | : | ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. | | | | |
| ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number | | | | |
| 5. Change in Entity Sta | , | | | <u>'</u> | | · | |
| ** | ns SMALL ENTITY state | | b. Applicant is no lo | | | | |
| interest as shown by the | records of the United Sta | uired) will not be accepte ites Patent and Trademark | of from anyone other than Office. | the applicant; a re | gistered | attorney or agent; or the | e assignee or other party in |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | Registration No. | | | | |
| This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223 | ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO | CFR 1.311. The informatic JU.S.C. 122 and 37 CFR E USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR | on is required to obtain o 1.14. This collection is e y depending upon the ind the Chief Information Offi COMPLETED FORMS | r retain a benefit by estimated to take 12 ividual case. Any of cer, U.S. Patent and TO THIS ADDRES | the pub minute commen I Trader SS. SEN | lic which is to file (and s to complete, including ts on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete trument of Commerce, P.O. for Patents, P.O. Box 1450, |

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| 21171 7590 04/02/2010 STAAS & HALSEY LLP | | EXAM | IINER | | | | |
| | | PATEL, CHA | NDRAHAS B | | | | |
| SUITE 700 | | | | ART UNIT | PAPER NUMBER | | |
| 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 | | | 2464 DATE MAILED: 04/02/201 | 0 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 625 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 625 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | |
|--|--|--|--------|
| | 10/809,457 | ARNOLD ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Chandrahaa Datal | 2464 | |
| | Chandrahas Patel | 2464 | |
| The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in or other appropriate communication is sufficient or communication in s | n this application. If not included unication will be mailed in due course | |
| 1. This communication is responsive to <u>12/24/2009</u> . | | | |
| 2. The allowed claim(s) is/are <u>1-24</u> . | | | |
| Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: | nder 35 U.S.C. § 119(a)-(d) | or (f). | |
| Certified copies of the priority documents have | e been received. | | |
| Certified copies of the priority documents have | e been received in Application | n No | |
| 3. Copies of the certified copies of the priority do | cuments have been receive | d in this national stage application fro | om the |
| International Bureau (PCT Rule 17.2(a)). | | | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | a reply complying with the requirem | nents |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv | | | E OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | | v (PTO-948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | - | . (| |
| (b) ☐ including changes required by the attached Examiner | = | in the Office action of | |
| Paper No./Mail Date | o / unionamone / Gommone of | in the office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of | | | of |
| 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | | | ne |
| | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5 ☐ Notice of In | formal Patent Application | |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413), | |
| | Paper No. | Mail Date | |
| 3. Information Disclosure Statements (PTO/SB/08), | 7. 🔲 Examiner's | Amendment/Comment | |
| Paper No./Mail Date 4. | 8. 🛛 Examiner's | Statement of Reasons for Allowance | е |
| • | 9. 🔲 Other | | |
| /Chandrahas Patel/ | | | |
| Examiner, Art Unit 2464 | | | |
| | | | |

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Art Unit: 2464

DETAILED ACTION

1. In view of the appeal brief filed on 12/24/2009, PROSECUTION IS HEREBY

REOPENED. Reason for allowance is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37

CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an

appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee

can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have

been increased since they were previously paid, then appellant must pay the difference between

the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing

below:

/Ricky Ngo/

Supervisory Patent Examiner, Art Unit 2464.

Allowable Subject Matter

2. Claims 1-24 are allowed.

3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 6, 10, 14, 21 and 24 applicant argues that Nakano does not teach the

composition of the transmission sequence depends on the cycle number of a particular

transmission cycle. Examiner agrees that Nakano does not teach that the cycle number

determines the composition of transmission sequence. Rather Nakano teaches the numbers of channels are determined for a particular transmission sequence. Examiner concludes that the cited prior art teaches all limitations of the claims except processing a transmission sequence of real-time data packets within the first partial Cycle of the particular transmission cycle, wherein the transmission sequence is composed of one or more partial sequences, the composition of which depends on the cycle number determined for the particular transmission cycle, wherein the cycle number determines which of the partial sequences are transmitted in the particular transmission cycle, and wherein the pre-planning comprises defining a duration of each of the plurality of transmission cycles.

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This taken with other limitations of the dependent claims is considered novel and nonobvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrahas Patel whose telephone number is (571)270-1211. The examiner can normally be reached on Monday through Thursday 7:30 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2464

/Chandrahas Patel/ Examiner, Art Unit 2464